

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

Adam Foss, ADA

Suffolk County District Attorney's Office By e-mail

April 25, 2011

Re: Comm. v.

State Lab nos.

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

ADA Foss,

Please find enclosed a discovery packet for the case noted above. The material is collated in the following manner:

- 1) the chemists' c.v.'s
- 2) the evidence office receipt to the Boston Police
- 2) inventory control cards for the submissions
- 3) the bench notes on the "Drug Powder Analysis Forms"
- 4) the gas chromatography/mass spectrometry (gc/ms) data

I was the custodial chemist responsible for weighing the sample and performing the preliminary tests. Ms. Khan performed the gas chromatography/mass spectrometry (gc/ms). If you need further clarification of this material, please call me directly at (617) 983-6627.

Sincerely.

Michael Lawler Senior Chemist

Cc: Charles Salemi, Annie Khan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975 Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits.

2005-present lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

CDC course in cell culture

CDC course in antibiotic resistance

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

<u>Screening</u>, 1992, 1:34-37; Lawler, M., Frederick, S., Rodriguez-Anza, S., Wolf, B., Levy, H., Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases

<u>Genetic Screening</u>, 1990, 11-18, Mitchell, M., Lawler, M., Walraven, C., Hermos, R., To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?

<u>The Journal of Pediatrics</u>, 116: 78-83, Secor-McVoy, J., Lawler, M., Schmidt, M., Ebers, D., Hart, P., Pettit, D., Blitzer, M., Wolf, B., Partial Biotinidase Deficiency: Clinical and Biochemical Features

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals, (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)



CC #_			
BOOK #_	28		
PAGE #_	195	 	

DRUG RECEIPT		PAGE #			
	DES	TRUCTION #			
District/Unit DCU/E-13					
Name & Rank of Arresting Officer	HARSER		ID#_///29	9	
DEFENDANT'S NAME	ADD	RESS	CITY	STATE	
				•	
			LAB U	SE ONLY	
DESCRIPTION OF ITEMS SUBMITTED		GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER	
			h · a	INUMBER	
HEROIN	,	2 1/15	d.60g		
HEROIN		1816	2,54		
			, 219		
				_	
		· · · · · · · · · · · · · · · · · · ·			
for the completed by POH					
o be completed by ECU personnel only		/		00 50	
Name and Rank of Submitting Officer	Small	<u></u>	Date	7800	
Received by	lo)		Date	7-12-10	

BPD Form 0038-BIS-0907 (prev. 1753)

©<<u>≠</u>231

ECU Control #

City: Boston D.C.U. Police Dept.

Officer: P.O. CRAIG SMALLS

Def:

Amount: Subst: SUB

No. Cont: 2 Cont: pb

Date Rec'd: 07/12/2010 No. Analyzed: Net Weight: 0 2 b 9

Tests: 5 Mm

Prelim: 12 COV

Findings: Henois

No.

City: Boston D.C.U. Police Dept.

Officer: P.O. CRAIG SMALLS

Def:

Amount:

No. Cont: 1 Cont: pb

Date Rec'd: 07/12/2010

Gross Wt.: 2.24 1

Prolim: Findings: Henoin

Folk_OIG_PRR_022236

GC130210-5

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM7\09 02 10\741455.D

Operator : ASD

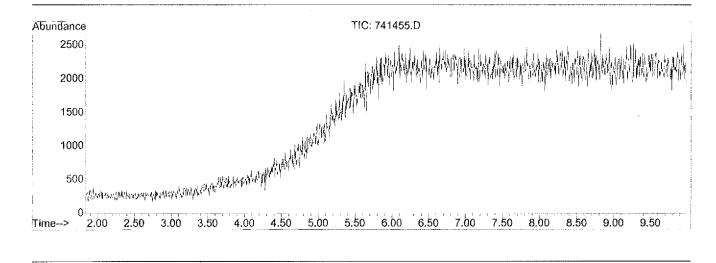
Date Acquired : 2 Sep 2010 21:09

Sample Name : BLANK

Submitted by

Vial Number :

AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time

Area

Area

Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : $F:\Q3-2010\SYSTEM7\09\ 02\ 10\741456.D$

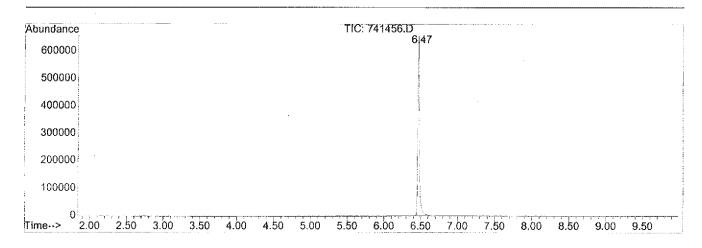
Operator : ASD

Date Acquired : 2 Sep 2010 21:21

Sample Name : HEROIN STD

Submitted by :

Vial Number : 56 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.465	1011259	100.00	100.00

File Name : $F:\Q3-2010\SYSTEM7\09 02 10\741456.D$

Operator : ASD

Date Acquired : 2 Sep 2010 21:21

Sample Name : HEROIN STD

Submitted by :

Vial Number : 56 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

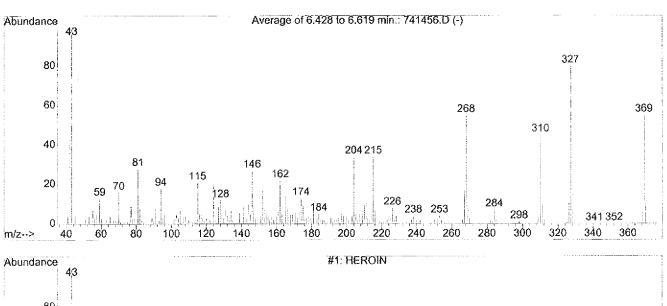
C:\DATABASE\PMW TOX2.L Minimum Quality: 90

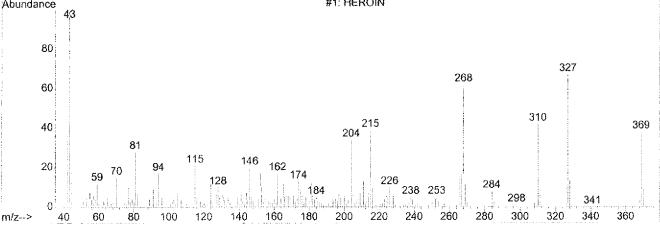
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 6.47 C:\DATABASE\SLI.L

HEROIN 000561-27-3 99





741456.D

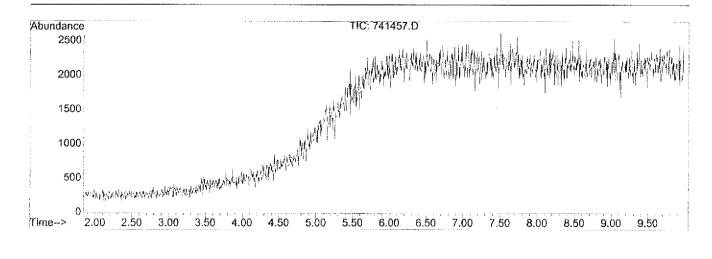
Thu Apr 21 06:54:32 2011

File Name : F:\Q3-2010\SYSTEM7\09 02 10\741457.D

Operator : ASD

Date Acquired : 2 Sep 2010 21:34

Sample Name : BLANK Submitted by : SLD Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

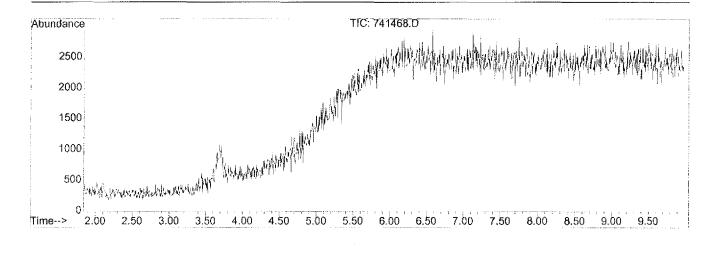
Information from Data File:

File Name : F:\Q3-2010\SYSTEM7\09_02_10\741468.D

Operator : ASD

Date Acquired : 2 Sep 2010 23:53

Sample Name : BLANK Submitted by : MGL Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

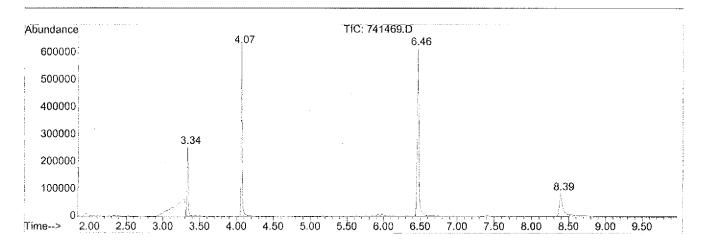
File Name : $F:\Q3-2010\SYSTEM7\09 02 10\741469.D$

Operator : ASD

Date Acquired : 3 Sep 2010 00:06

Sample Name :

Submitted by : MGL Vial Number : 69 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.335	259208	12.26	26.93	
4.066	631244	29.86	65.58	
6.465	962523	45.52	100.00	
8.392	261315	12.36	27.15	

File Name : F:\Q3-2010\SYSTEM7\09 02 10\741469.D

Operator : ASD

Date Acquired : 3 Sep 2010 00:06

Sample Name : Submitted by : I

Submitted by : MGL Vial Number : 69 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

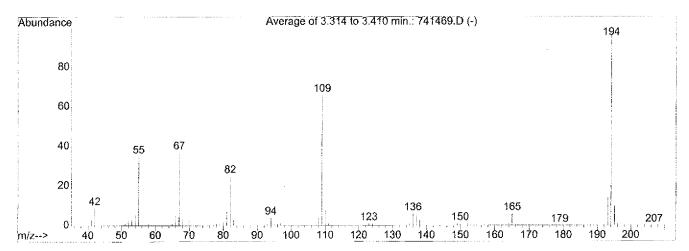
Minimum Quality: 90

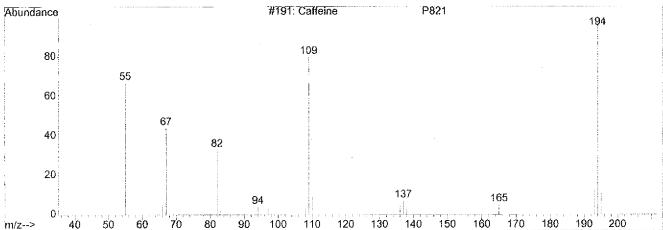
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.34	C:\DATABASE\PMW_TOX2.L Caffeine Proxyphylline Dimetacrine-M (ring)	000058-08-2 000603-00-9 006267-02-3	95 4 4





741469.D

Thu Apr 21 06:54:45 2011

Page 2

File Name : F:\Q3-2010\SYSTEM7\09 02 10\741469.D

Operator : ASD

Date Acquired 3 Sep 2010 00:06

Sample Name Submitted by

MGL Vial Number 69 AcquisitionMeth: DRUGS Integrator : RTE

C:\DATABASE\SLI.L Search Libraries:

Minimum Quality: 90 Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

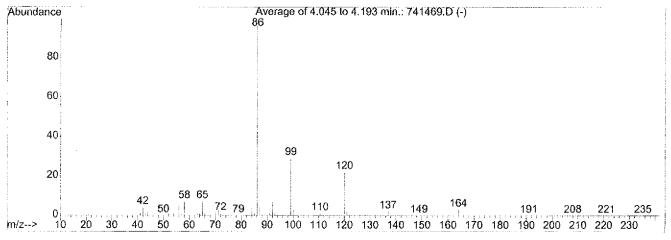
C:\DATABASE\NIST98.L

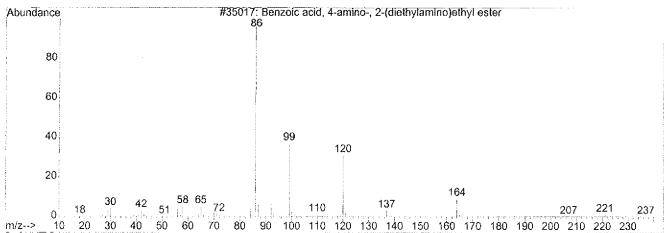
PK# RT Library/ID CAS# Qual

2 4.07 C:\DATABASE\NIST98.L

> Benzoic acid, 4-amino-, 2-(diethyla 000059-46-1 90 Benzamide, 4-amino-N-[2-(diethylami 000051-06-9 83

3-Aminobenzoic acid, 2-diethylamino 1000193-23-3





741469.D

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Page 3 64

File Name : $F:\Q3-2010\SYSTEM7\09\ 02\ 10\741469.D$

Operator : ASD

Date Acquired : 3 Sep 2010 00:06

Sample Name :

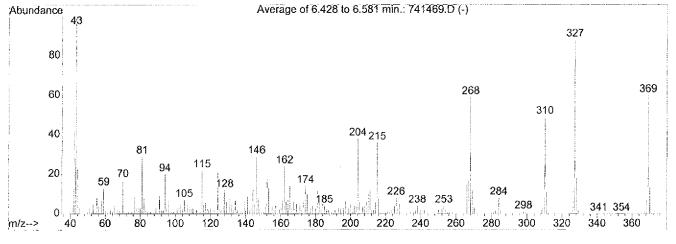
Submitted by : MGL Vial Number : 69 AcquisitionMeth: DRUGS Integrator : RTE

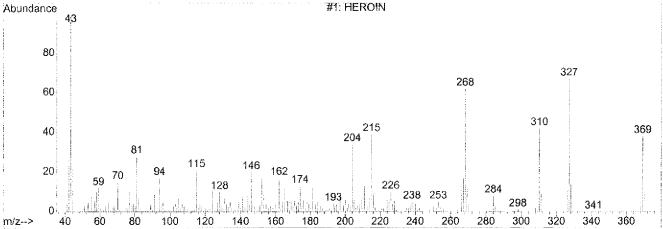
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
3	6.47	C:\DATABASE\SLI.L HEROIN	000561-27-3	94





741469.D

Thu Apr 21 06:54:47 2011

: F:\Q3-2010\SYSTEM7\09 02 10\741469.D File Name

Operator : ASD

Date Acquired : 3 Sep 2010 00:06

Sample Name Submitted by : MGL 69 :

Vial Number AcquisitionMeth: DRUGS : RTE .Integrator

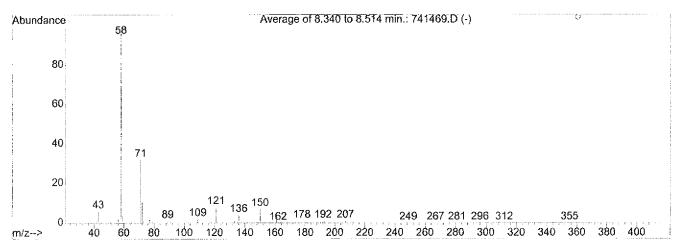
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

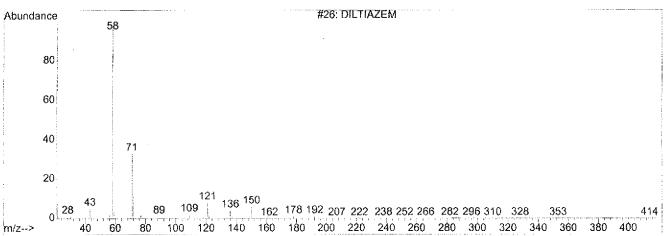
C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
4	8.39	C:\DATABASE\SLI.L DILTIAZEM	033286-22-5	91
		CITALOPRAM CITALOPRAM	059729-33-8 059729-33-8	4





741469.D

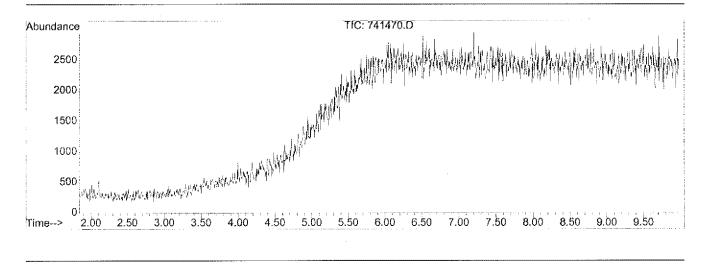
Thu Apr 21 06:54:47 2011

File Name : F:\Q3-2010\SYSTEM7\09_02_10\741470.D

Operator : ASD

Date Acquired : 3 Sep 2010 00:18

Sample Name : BLANK Submitted by : MGL Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

741470.D

Thu Apr 21 06:54:51 2011

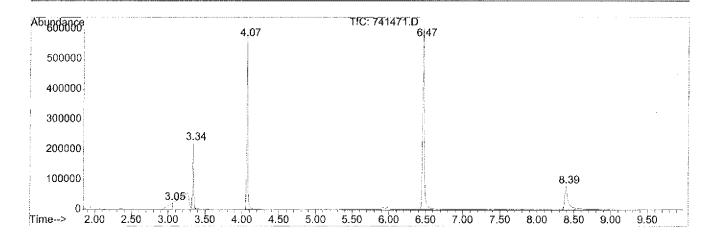
File Name : F:\Q3-2010\SYSTEM7\09_02_10\741471.D

Operator : ASD

Date Acquired : 3 Sep 2010 00:31

Sample Name :

Submitted by : MGL Vial Number : 71 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.055	102287	5.00	11.03	
3.336	210430	10,28	22.69	
4.066	566310	27.67	61.05	
6.465	927615	45.33	100.00	
8.393	. 239773	11.72	25.85	

File Name : $F:\Q3-2010\SYSTEM7\09\ 02\ 10\741471.D$

Operator : ASD

Date Acquired : 3 Sep 2010 00:31

Sample Name : MGL

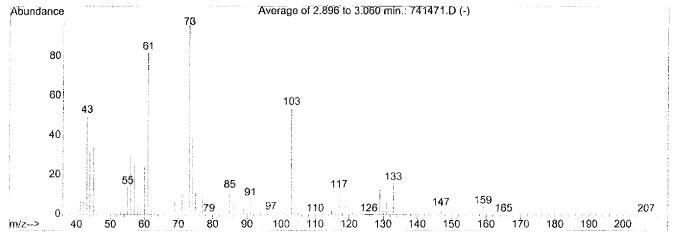
Submitted by : MGL Vial Number : 71 AcquisitionMeth: DRUGS Integrator : RTE

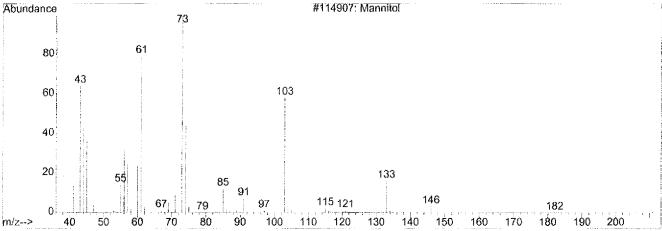
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1.	3.05	C:\DATABASE\NIST98.L Mannitol Sorbitol Mannitol	000069-65-8 000050-70-4 000069-65-8	87 83 72





741471.D

Thu Apr 21 06:54:55 2011

Page 2

File Name : F:\Q3-2010\SYSTEM7\09_02_10\741471.D

Operator : ASD

Date Acquired : 3 Sep 2010 00:31

Sample Name :

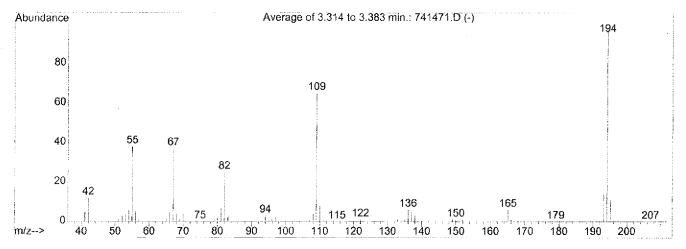
Submitted by : MGL Vial Number : 71 AcquisitionMeth: DRUGS Integrator : RTE

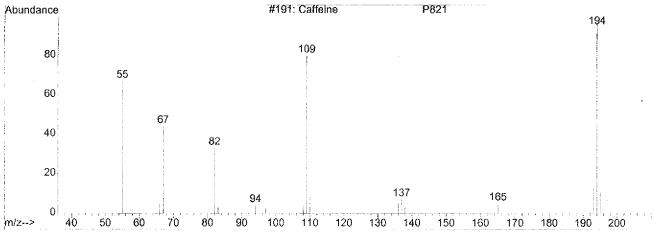
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	3.34	C:\DATABASE\PMW_TOX2.L		
		Caffeine	000058-08-2	96
		Endogenous biomolecule 2AC	000000-00-0	9
		Proxyphylline	000603-00-9	4





741471.D

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Page 3

File Name : $F:\Q3-2010\SYSTEM7\09\ 02\ 10\741471.D$

Operator : ASD

Date Acquired : 3 Sep 2010 00:31

Sample Name

Submitted by : MGL Vial Number : 71 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

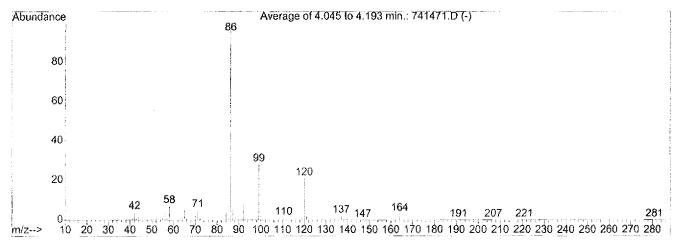
Minimum Quality: 90

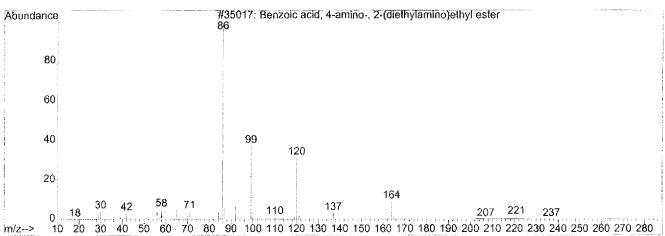
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
 3	4.07	C:\DATABASE\NIST98.L		
		Benzoic acid, 4-amino-, 2-(diethyla	000059-46-1	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	83
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	64





741471.D

Thu Apr 21 06:54:56 2011

File Name : $F:\Q3-2010\SYSTEM7\09 02 10\741471.D$

Operator : ASD

Date Acquired : 3 Sep 2010 00:31

Sample Name :

Submitted by : MGL Vial Number : 71 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

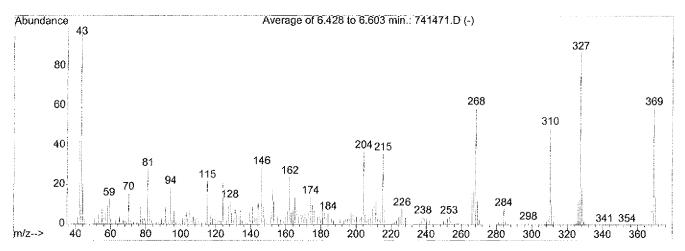
Minimum Quality: 90

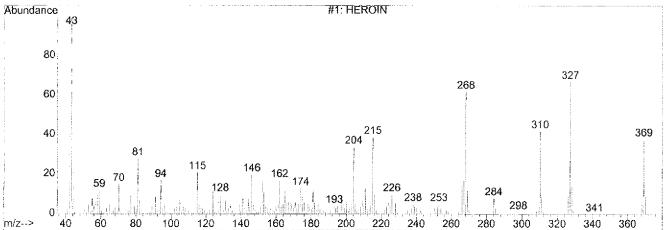
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

4 6.47 C:\DATABASE\SLI.L HEROIN

000561-27-3 99





741471.D

Thu Apr 21 06:54:57 2011

Page 5

File Name : F:\Q3-2010\SYSTEM7\09 02 10\741471.D

Operator : ASD

Date Acquired 3 Sep 2010 00:31

Sample Name Submitted by : MGL 71

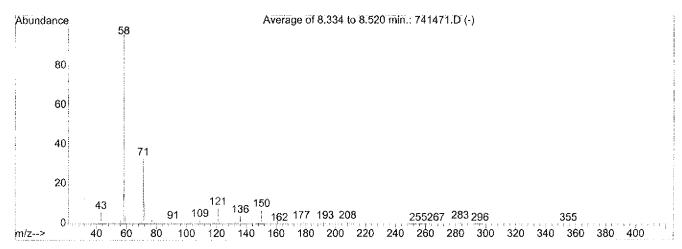
Vial Number AcquisitionMeth: DRUGS Integrator : RTE

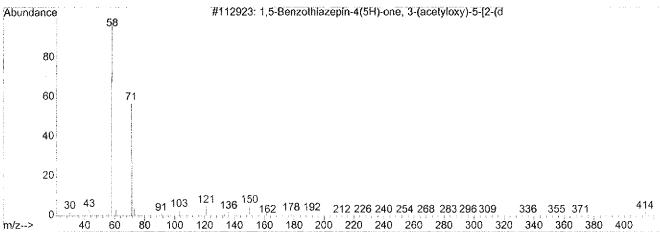
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
 5	8.39	C:\DATABASE\NIST98.L			
		1,5-Benzothiazepin-4(5H)-one,	3-(ac	042399-41-7	53
		Propoxyphene		000469-62-5	47
		1 5-Renzothiazenin-4(5H)-one	3-/20	042399-41-7	47





741471.D

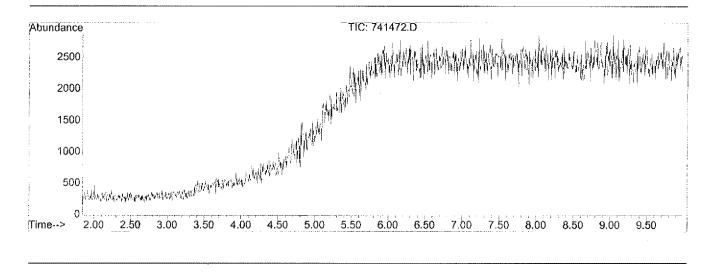
Thu Apr 21 06:54:59 2011

File Name : $F:\Q3-2010\SYSTEM7\09_02_10\741472.D$

Operator : ASD

Date Acquired : 3 Sep 2010 00:43

Sample Name : BLANK Submitted by : SLD Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

^{***}NO INTEGRATED PEAKS***

Area Percent / Library Search Report

Information from Data File:

File Name : $F:\Q3-2010\SYSTEM7\09\ 02\ 10\741475.D$

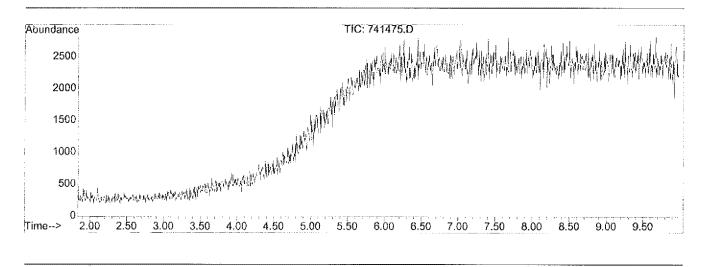
Operator : ASD

Date Acquired : 3 Sep 2010 1:21

Sample Name : BLANK

Submitted by :

Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area & Ratio %

NO INTEGRATED PEAKS

File Name : $F:\Q3-2010\SYSTEM7\09\ 02\ 10\741476.D$

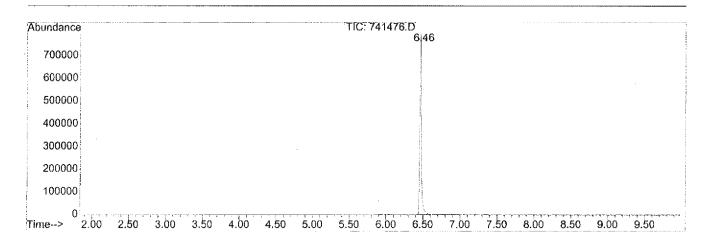
Operator : ASD

Date Acquired : 3 Sep 2010 1:34

Sample Name : HEROIN STD

Submitted by :

Vial Number : 76 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.465	1200447	100.00	100.00

File Name : F:\Q3-2010\SYSTEM7\09 02 10\741476.D

Operator : ASD

Date Acquired 3 Sep 2010 1:34

JWH-073

Sample Name HEROIN STD

Submitted by

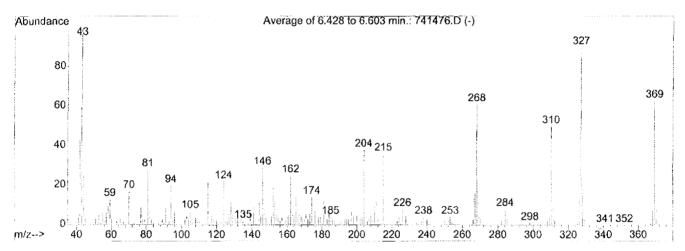
Vial Number 76 AcquisitionMeth: DRUGS Integrator : RTE

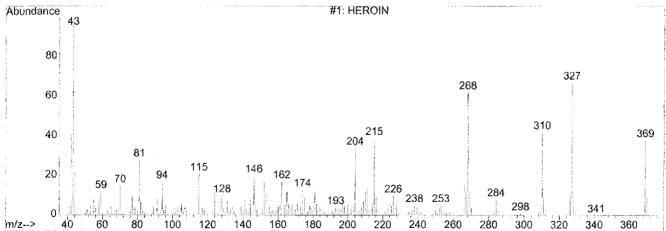
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741476.D

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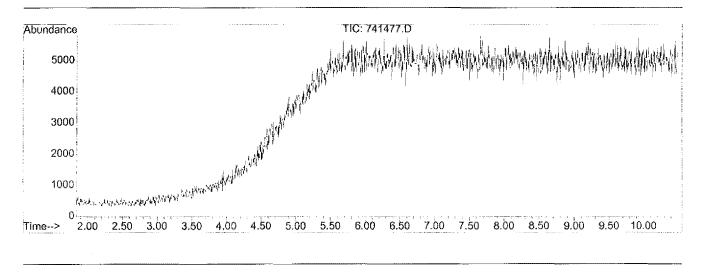
Operator : ASD

Date Acquired : 3 Sep 2010 1:47

Sample Name : BLANK

Submitted by :

Vial Number : 2 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area % Ratio %

NO INTEGRATED PEAKS

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Last page..... ... no further data